OIPE

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RAW SEQUENCE LISTING                    DATE: 07/17/2000
PATENT APPLICATION:   US/09/610,313     TIME: 11:06:00

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Output Set: N:\CRF3\07172000\I610313.raw
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 3 <110> APPLICANT: Barnett, Susan
 4        Zur Megede, Jan
 6 <120> TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING ANTIGENIC HIV TYPE C
 7        POLYPEPTIDES, POLYPEPTIDES AND USES THEREOF
 9 <130> FILE REFERENCE: PP01631.101
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/610,313
C--> 12 <141> CURRENT FILING DATE: 2000-07-05
14 <150> PRIOR APPLICATION NUMBER: 09/475,704
15 <151> PRIOR FILING DATE: 1999-12-30
17 <160> NUMBER OF SEQ ID NOS: 45
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22 <211> LENGTH: 60
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24 <213> ORGANISM: Human immunodeficiency virus
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30 <211> LENGTH: 60
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44        of HIV strain AF110965
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49 ctggagaagt tcgccctgaa ccccggcctg ctggagacca gcgagggctg caagcagatc 180
50 atccgccagc tgcaccccgc cctgcagacc ggcagcgagg agctgaagag cctgttcaac 240
51 accgtggcca ccctgtactg cgtgcacgag aagatcgagg tccgcgacac caaggaggcc 300
52 ctggacaaga tcgaggagga gcagaacaag tgccagcaga agatccagca ggccgaggcc 360
53 gccgacaagg gcaaggtgag ccagaactac cccatcgtgc agaacctgca gggccagatg 420
54 gtgcaccagg ccatcagccc ccgcaccctg aacgcctggg tgaaggtgat cgaggagaag 480
55 gccttcagcc ccgaggtgat ccccatgttc accgccctga gcgagggcgc cacccccag 540
56 gacctgaaca cgatgttgaa caccgtgggc ggccaccagg ccgccatgca gatgctgaag 600
57 gacaccatca cgaggaggc cgccgagtgg gaccgcgtgc accccgtgca cgccggcccc 660
58 atcgcccccg gccagatgcg cgagccccgc ggcagcgaca tcgccggcac caccagcacc 720
59 ctgcaggagc agatcgcctg gatgaccagc aacccccca tccccgtggg cgacatctac 780
60 aagcggtgga tcatcctggg cctgaacaag atcgtgcgga tgtacagccc cgtgagcatc 840
61 ctggacatca gcagggccc caaggagccc ttccgcgact acgtggaccg cttcttcaag 900
62 accctgcgcg ccgagcagag cacccaggag gtgaagaact ggatgaccga caccctgctg 960
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63 gtgcagaacg ccaaccccga ctgcaagacc atcctgcgcg ctctcggccc cggcgccagc 1020
64 ctggaggaga tgatgaccgc ctgccagggc gtgggcggcc ccagccacaa ggcccgcgtg 1080
65 ctggccgagg cgatgagcca ggccaacacc agcgtgatga tgcagaagag caacttcaag 1140
66 ggcccccggc gcatcgtcaa gtgcttcaac tgcggcaagg agggccacat cgcccgcaac 1200
67 tgccgcgccc cccgcaagaa gggctgctgg aagtgcggca aggagggcca ccagatgaag 1260
68 gactgcaccg agcgccaggc caacttcctg ggcaagatct ggcccagcca caagggccgc 1320
69 cccggcaact tcctgcagag ccgccccgag cccaccgccc cccccgccga gagcttccgc 1380
70 ttcgaggaga ccacccccgg ccagaagcag gagagcaagg accgcgagac cctgaccagc 1440
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75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial Sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic Gag
80       of HIV strain AF110967

82 <400> SEQUENCE: 4
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84 ctgcgccccg gcggcaagaa gcactacatg ctgaagcacc tggtgtgggc cagccgcgag 120
85 ctggagggct tcgccctgaa ccccgccctg ctggagaccg ccgagggctg caagcagatc 180
86 atgaagcagc tgcagcccgc cctgcagacc ggcaccgagg agctgcgcag cctgtacaac 240
87 accgtggcca ccctgtactg cgtgcacgcc ggcatcgagg tccgcgacac caaggaggcc 300
88 ctggacaaga tcgaggagga gcagaacaag tcccagcaga agacccagca ggccaaggag 360
89 gccgacggca aggtgagcca gaactacccc atcgtgcaga acctgcaggg ccagatggtg 420
90 caccaggcca tcagcccccg caccctgaac gcctgggtga aggtgatcga ggagaaggcc 480
91 ttcagccccg aggtgatccc catgttcacc gccctgagcg agggcgccac cccccaggac 540
92 ctgaacacga tgttgaacac cgtgggcggc caccaggccg ccatgcagat gctgaaggac 600
93 accatcaacg aggaggccgc cgagtgggac cgcctgcacc ccgtgcaggc cggcccccgtg 660
94 gccccccggcc agatgcgcga ccccccgcggc agcgacatcg ccggcgccac cagcaccctg 720
95 caggagcaga tcgcctggat gaccagcaac cccccccgtgc ccgtgggcga catctacaag 780
96 cggtggatca tcctgggcct gaacaagatc gtgcggatgt acagcccccgt gagcatcctg 840
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98 ctgcgcgccg agcaggccac ccaggacgtg aagaactgga tgaccgagac cctgctggtg 960
99 cagaacgcca accccgactg caagaccatc ctgcgcgctc tcggccccgg cgccaccctg 1020
100 gaggagatga tgaccgcctg ccagggcgtg ggcggccccg gccacaaggc ccgcgtgctg 1080
101 gccgaggcga tgagccaggc caacagcgtg aacatcatga tgcagaagag caacttcaag 1140
102 ggcccccggc gcaacgtcaa gtgcttcaac tgcggcaagg agggccacat cgccaagaac 1200
103 tgccgcgccc cccgcaagaa gggctgctgg aagtgcggca aggagggcca ccagatgaag 1260
104 gactgcaccg agcgccaggc caacttcctg ggcaagatct ggcccagcca caagggccgc 1320
105 cccggcaact tcctgcagaa ccgcagcgag cccgccgccc ccaccgtgcc caccgcccccc 1380
106 cccgccgaga gcttccgctt cgaggagacc accccccgccc ccaagcagga gcccaaggac 1440
107 cgcgagccct accgcgagcc cctgaccgcc ctgcgcagcc tgttcggcag cggcccccctg 1500
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111 <211> LENGTH: 141
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Description of Artificial Sequence: Env common
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117      region of HIV strain AF110968
119 <400> SEQUENCE: 5
120 accatcacca tcacctgccg catcaagcag atcatcaaca tgtgtgcagaa ggtgggccgc 60
121 gccatgtacg cccccccccat cgccggcaac ctgacctgcg agagcaacat caccggcctg 120
122 ctgctgaccc gcgacggcgg c                                           141
124 <210> SEQ ID NO: 6
125 <211> LENGTH: 1431
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
131      gp120 coding region of HIV strain AF110968
133 <400> SEQUENCE: 6
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135 aagaccaccc tgttctgcac cagcgacgcc aaggcctacg agaccgaggt gcacaacgtg 120
136 tgggccaccc acgcctgcgt gcccaccgac cccaacccccc aggagatcgt gctggagaac 180
137 gtgaccgaga acttcaacat gtggaagaac gacatggtgg accagatgca cgaggacatc 240
138 atcagcctgt gggaccagag cctgaagccc tgcgtgaagc tgaccccccct gtgcgtgacc 300
139 ctgaagtgcc gcaacgtgaa cgccaccaac aacatcaaca gcatgatcga caacagcaac 360
140 aagggcgaga tgaagaactg cagcttcaac gtgaccaccg agctgcgcga ccgcaagcag 420
141 gaggtgcacg ccctgttcta ccgcctggac gtggtgcccc tgcagggcaa caacagcaac 480
142 gagtaccgcc tgatcaactg caacaccagc gccatcaccc aggcctgccc caaggtgagc 540
143 ttcgacccca tccccatcca ctactgcacc cccgccggct acgccatcct gaagtgcaac 600
144 aaccagacct tcaacggcac cggcccctgc aacaacgtga gcagcgtgca gtgcgcccac 660
145 ggcatcaagc ccgtggtgag cacccagctg ctgctgaacg gcagcctggc caagggcgag 720
146 atcatcatcc gcagcgagaa cctggccaac aacgccaaga tcatcatcgt gcagctgaac 780
147 aagcccgtga agatcgtgtg cgtgcgcccc aacaacaaca cccgcaagag cgtgcgcatc 840
148 ggccccggcc agaccttcta cgccaccggc gagatcatcg gcgacatccg ccaggcctac 900
149 tgcatcatca acaagaccga gtggaacagc acccctgcagg gcgtgagcaa gaagctggag 960
150 gagcacttca gcaagaaggc catcaagttc gagcccagca gcggcggcga cctggagatc 1020
151 accacccaca gcttcaactg ccgcggcgag ttcttctact gcgacaccag ccagctgttc 1080
152 aacagcacct acagcccccag cttcaacggc accgagaaca agctgaacgg caccatcacc 1140
153 atcacctgcc gcatcaagca gatcatcaac atgtggcaga aggtgggccg cgccatgtac 1200
154 gcccccccca tcgccggcaa cctgacctgc gagagcaaca tcaccggcct gctgctgacc 1260
155 cgcgacggcg gcaagaccgg ccccaacgac accgagatct ccgcccccgg cggcggcgac 1320
156 atgcgcgaca ctggcgcaa cgagctgtac aagtacaagg tggtggagat caagcccctg 1380
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162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
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170 aagaccaccc tgttctgcac cagcgacgcc aaggcctacg agaccgaggt gcacaacgtg 120
171 tgggccaccc acgcctgcgt gcccaccgac cccaacccccc aggagatcgt gctggagaac 180
172 gtgaccgaga acttcaacat gtggaagaac gacatggtgg accagatgca cgaggacatc 240
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173 atcagcctgt gggaccagag cctgaagccc tgcgtgaagc tgacccccct gtgcgtgacc 300
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175 aagggcgaga tgaagaactg cagcttcaac gtgaccaccg agctgcgcga ccgcaagcag 420
176 gaggtgcacg ccctgttcta ccgcctggac gtggtgcccc tgcagggcaa caacagcaac 480
177 gagtaccgcc tgatcaactg caacaccagc gccatcaccc aggcctgccc caaggtgagc 540
178 ttcgacccca tccccatcca ctactgcacc cccgccggct acgccatcct gaagtgcaac 600
179 aaccagacct tcaacggcac cggcccctgc aacaacgtga gcagcgtgca gtgcgcccac 660
180 ggcatcaagc ccgtggtgag cacccagctg ctgctgaacg gcagcctggc caagggcgag 720
181 atcatcatcc gcagcgagaa cctggccaac aacgccaaga tcatcatcgt gcagctgaac 780
182 aagcccgtga agatcgtgtg cgtgcgcccc aacaacaaca cccgcaagag cgtgcgcatc 840
183 ggccccggcc agaccttcta cgccaccggc gagatcatcg gcgacatccg ccaggcctac 900
184 tgcatcatca acaagaccga gtggaacagc accctgcagg gcgtgagcaa gaagctggag 960
185 gagcacttca gcaagaaggc catcaagttc gagcccagca gcggcggcga cctggagatc 1020
186 accacccaca gcttcaactg ccgcggcgag ttcttctact gcgacaccag ccagctgttc 1080
187 aacagcacct acagccccag cttcaacggc accgagaaca agctgaacgg caccatcacc 1140
188 atcacctgcc gcatcaagca gatcatcaac atgtggcaga aggtgggccg cgccatgtac 1200
189 gcccccccca tcgccggcaa cctgacctgc gagagcaaca tcaccggcct gctgctgacc 1260
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191 atgcgcgaca actggcgcaa cgagctgtac aagtacaagg tggtggagat caagcccctg 1380
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198 agcaaccgca gccacgacga gatctgggac aacatgacct ggatgcagtg ggaccgcgag 1800
199 atcaacaact acaccgacac catctaccgc ctgctggagg agagccagaa ccagcaggag 1860
200 aagaacgaga aggacctgct ggccctggac agctggcaga acctgtggaa ctggttcagc 1920
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201 atcaccaact ggctgtggta catc
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206 <213> ORGANISM: Artificial Sequence
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209 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
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212 <400> SEQUENCE: 8

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215 tgggccaccc acgcctgcgt gcccaccgac cccaacccccc aggagatcgt gctggagaac 180
216 gtgaccgaga acttcaacat gtggaagaac gacatggtgg accagatgca cgaggacatc 240
217 atcagcctgt gggaccagag cctgaagccc tgcgtgaagc tgaccccccct gtgcgtgacc 300
218 ctgaagtgcc gcaacgtgaa cgccaccaac aacatcaaca gcatgatcga caacagcaac 360
219 aagggcgaga tgaagaactg cagcttcaac gtgaccaccg agctgcgcga ccgcaagcag 420
220 gaggtgcacg ccctgttcta ccgcctggac gtggtgcccc tgcagggcaa caacagcaac 480
221 gagtaccgcc tgatcaactg caacaccagc gccatcaccc aggcctgccc caaggtgagc 540
222 ttcgacccca tccccatcca ctactgcacc cccgccggct acgccatcct gaagtgcaac 600
223 aaccagacct tcaacggcac cggcccctgc aacaacgtga gcagcgtgca gtgcgcccac 660
224 ggcatcaagc ccgtggtgag cacccagctg ctgctgaacg gcagcctggc caagggcgag 720
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227 ggccccggcc agaccttcta cgccaccggc gagatcatcg gcgacatccg ccaggcctac 900
228 tgcatcatca acaagaccga gtggaacagc accctgcagg gcgtgagcaa gaagctggag 960
229 gagcacttca gcaagaaggc catcaagttc gagcccagca gcggcggcga cctggagatc 1020
230 accacccaca gcttcaactg ccgcggcgag ttcttctact gcgacaccag ccagctgttc 1080
231 aacagcacct acagccccag cttcaacggc accgagaaca agctgaacgg caccatcacc 1140
232 atcacctgcc gcatcaagca gatcatcaac atgtggcaga aggtgggccg cgccatgtac 1200
233 gccccccccca tcgccggcaa cctgacctgc gagagcaaca tcaccggcct gctgctgacc 1260
234 cgcgacggcg gcaagaccgg ccccaacgac accgagatct tccgccccgg cggcggcgac 1320
235 atgcgcgaca actggcgcaa cgagctgtac aagtacaagg tggtggagat caagcccctg 1380
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238 atcaccctga ccgtgcaggc ccgcctgctg ctgagcggca tcgtgcagca gcagaacaac 1560
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254 ctgcag
256 <210> SEQ ID NO: 9
257 <211> LENGTH: 2547
258 <212> TYPE: DNA
259 <213> ORGANISM: Artificial Sequence
261 <220> FEATURE:
262 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
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264       strain AF110968
266 <400> SEQUENCE: 9
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268 ttctggatgc tgatcatcag cagcgtggtg ggcaacctgt gggtgaccgt gtactacggc 120
269 gtgcccgtgt ggaaggaggc caagaccacc ctgttctgca ccagcgacgc caaggcctac 180
270 gagaccgagg tgcacaacgt gtgggccacc cacgcctgcg tgcccaccga ccccaacccc 240
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273 ctgacccccc tgtgcgtgac cctgaagtgc cgcaacgtga acgccaccaa caacatcaac 420
274 agcatgatcg acaacgacaa caagggcgag atgaagaact gcagcttcaa cgtgaccacc 480
275 gagctgcgcg accgcaagca ggaggtgcac gccctgttct accgcctgga cgtggtgccc 540
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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date